

CLAIMS

1. An electric hand power tool selected from the group consisting of a hammer drill and an impact hammer drill, comprising a housing; a drive transmission received in said housing and having an intermediate transmission for turning a tool; an impact mechanism with a swinging drive for delivering axially oriented impacts to the tool; a drive shaft; a transmission toothed wheel fixed on said transmission shaft for turning the latter; a drive bearing provided on said swinging drive and loosely arranged on said transmission shaft; a manually releasable coupling provided for switching off said impact mechanism and connecting said drive bearing with said transmission shaft for a rotation transmission; a crank-shaped flat switching plate provided for releasing said coupling and turnably supported on a receiving dome arranged above said transmission shaft; a drive pin operative for turning said switching plate under said receiving dome and engaging said switching plate; and a handle which is available outside of said housing and displacing said drive pin in a longitudinal direction of said transmission shaft.

2. An electric hand power tool as defined in claim 1, wherein said handle has a handle shaft which is rotatably held in said housing and

a handle button fixedly connected with said handle shaft, said drive pin extending at a radial distance from a rotary axis of said handle shaft at an end side outside of said handle shaft and engaging in a pocket formed in said switching plate.

3. An electric hand power tool as defined in claim 1; and further comprising a spring which is integrated in said handle button and is tensioned by turning said handle button in a direction of release of said coupling.

4. An electric hand power tool as defined in claim 1, wherein said coupling has a stationary coupling part and a displaceable coupling part which is engageable with said stationary coupling part through a coupling spring, said stationary coupling part being formed by said drive bearing of said swinging drive which loosely sits on said transmission shaft while said displaceable coupling part is formed by a coupling ring which has a radial flange and sits non-turnably and axially displaceably on said transmission shaft, said switching plate engaging said radial flange for releasing said coupling.

5. An electric hand power tool as defined in claim 4, wherein said coupling is formed as a claw coupling, said coupling spring being formed as a helical pressure spring fitted on said transmission shaft and pressing said coupling ring to said drive bearing which in turn is axially supported on said transmission toothed wheel mounted on said transmission shaft.

6. An electric hand power tool as defined in claim 5, wherein said transmission toothed wheel is mounted on said transmission shaft with press fit.

7. An electric hand power tool as defined in claim 4, wherein said switching plate has a longitudinal edge which faces said radial flange of said coupling ring and is convexly curved in a region of its abutment against said radial flange.

8. An electric hand power tool as defined in claim 5, wherein said switching plate has a longitudinal edge which faces said radial flange of said coupling ring and is convexly curved in a region of its abutment against said radial flange.

9. An electric hand power tool as defined in claim 1, wherein said switching plate is formed as a deep drawn part and has a cap-shaped convexity which surrounds said receiving dome concentrically with a small rotary clearance.

10. An electric hand power tool as defined in claim 9, wherein said receiving dome has an axial length such that said switching plate in a region of said cap-shaped convexity is held with a small clearance between an end side of said receiving dome and an inner housing shell of said housing.

11. An electric hand power tool as defined in claim 2, wherein said switching plate has a central flat surface region with which it abuts against an end side of said handle shaft with a small clearance and also a crank-shaped end portion with which it abuts against an outer surface of a coupling ring of said coupling with small clearance.